Claims

What is claimed is:

1. A method for performing a G.HS protocol handshake session between a local device and a remote device, the method comprising:

establishing an identification for the remote device;

the local device generating a request signal to initiate a handshake session, the request signal including an identification signal representative of the identification;

the remote device receiving the request signal;

the remote device verifying the identification signal; and

the remote device generating a response signal.

2. The method of claim 1 further comprising:

establishing a local device identification for the local device; and

including an identification signal representative of the local device identification in the response signal.

3. The method of claim 2 wherein the identification for the remote device and the local device identification are the same.

4. The method of claim 1 wherein the request signal includes multiple tones compatible with the G.HS protocol.

5. The method of claim 1 wherein the identification signal is comprised of a number of bits thereby allowing adjacent device pairs in a cable bundle to have unique identifications.

6. The method of claim 1 further comprising modulating the amplitude of the request signal to include the identification signal.

7. The method of claim 1 further comprising modulating the frequency of the request signal to include the identification signal.

8. The method of claim 1 further comprising configuring the request signal with differential phase reversals to include the identification signal.

9. The method of claim 1 further comprising configuring the request signal with an additional tone to indicate the identification signal.

10. A method for performing a handshake session between a local device and a remote device, the method comprising:

establishing a remote identification corresponding to the remote device;

establishing a local identification corresponding to the local device;

the local device generating a request signal to initiate a handshake session, the request signal including a remote identification signal representative of the remote identification;

the remote device receiving the request signal;

the remote device verifying the remote identification signal;

the remote device generating a response signal including a local identification signal representative of the local identification;

the local device receiving the response signal; and

the local device verifying the local identification signal.

11. The method of claim 10 wherein the remote and local identification signals are each comprised of a number of bits thereby allowing adjacent local-remote device pairs in a cable bundle to have unique remote and local identifications.

12. The method of claim 10 wherein the remote identification and the local identification are the same.

13. The method of claim 10 further comprising modulating the amplitude of the request and response signals to include the remote and local identification signals.

14. The method of claim 10 further comprising modulating the frequency of the request and response signals to include the remote and local identification signals.

15. The method of claim 10 further comprising configuring the request and response signals with differential phase reversals to include the remote and local identification signals.

16. The method of claim 10 further comprising configuring the request and response signals with an additional tone to indicate the remote and local identification signals.

17. The method of claim 10 wherein the remote and local identifications are selected from POTS numbers associated with the remote and local devices.

18. The method of claim 10 further comprising the local device sending code points to the remote device to indicate compatibility of remote and local device identification.

19. The method of claim 10 further comprising separating the local and remote identification signals into three octets within an identification field.

20. A method for performing a handshake session between a local device and a remote device, the method comprising:

establishing a remote identification corresponding to the remote device;

the remote device transmitting the remote identification to the local device upon an initial communication with the local device after installation of the remote device;

storing the remote identification for use by the local device in a subsequent communication with the remote device;

in a subsequent communication, the local device generating a request signal to initiate a handshake session, the request signal including the remote identification;

the remote device receiving the request signal; and

the remote device verifying the remote identification signal.

21. The method of claim 20 wherein the remote identification is comprised of a number of bits thereby allowing adjacent device pairs in a cable bundle to have unique identifications.

22. The method of claim 20 further comprising:

the remote device generating a response signal including a local identification corresponding to the local device;

the local device receiving the response signal; and

the local device verifying the local identification.

23. The method of claim 22 wherein the local identification and the remote identification are the same.

24. The method of claim 20 wherein the request signal includes multiple tones compatible with a G.HS protocol.

25. The method of claim 20 further comprising modulating the amplitude of the request signal to include the remote identification.

26. The method of claim 20 further comprising modulating the frequency of the request signal to include the remote identification.

27. The method of claim 20 further comprising configuring the request signal with differential phase reversals to include the remote identification.

28. The method of claim 20 further comprising configuring the request signal with an additional tone to indicate the remote identification.

29. The method of claim 20 wherein the remote identification is selected from a POTS number associate with the remote device.

30. The method of claim 20 further comprising the local device sending code points to the remote device to indicate compatibility of remote device identification.

31. The method of claim 20 further comprising separating the remote identification into three octets within an identification field.